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### [1. CBD152-001: Adjustable Focus Lenses for Respiratory Protection](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Current respiratory protection systems require optical inserts for wearers requiring optical correction. Use of optical correction inserts limit optical compatibility with night vision goggles and weapon systems due to the added eye relief. One reason individual high index lenses are not used is because they cost seven times more than vision correction inserts. Additionally, polycarbonate lenses h ...

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### [2. CBD152-002: Smart Split Neck Seals for Respiratory Protection](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Current respiratory protection neck seal systems do not incorporate smart sensing technologies. Current neck seal systems are simply basic circular rubber cut-outs and are required to be constructed of one continuous piece of material. Many wearers find traditional neck seals to be uncomfortable. Respiratory protection systems utilized for fixed wing aircraft pilots (e.g. JSAM-FW, AR-5, and AERP), ...

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### [3. CBD152-003: Development of Mycotoxin Medical Countermeasures](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Mycotoxins are toxins produced by several species of fungi. Exposure to these toxins can result in incapacitation or even death of the exposed subject. From a biological warfare perspective, mycotoxins are relatively easy to produce in large quantities and many of them have nearly effortless accessibility. For these reasons, mycotoxins present a real threat to the warfighter. Trichothecene (T-2), ...

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### [4. CBD152-004: Exploiting Microbiome and Synthetic Biology to Discover and Produce Naturally Occurring Antibiotics](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The explosion in the "omics" field has allowed for unprecedented genetic identification of some of the billions of bacteria that comprise the world of the microbiome. A potential wealth of information is available through the study of species that have developed sophisticated defense mechanisms to protect themselves from the onslaught of foreign invaders. Recent examples include the microbiome ...

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**5. [CBD152-005: High Sensitivity, Low Complexity, Multiplexed Diagnostic Devices](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The U.S. Department of Defense requires infectious disease in vitro diagnostic (IVD) capabilities that are operationally suitable for use in far forward military environments and operationally effective versus a wide range of threats. Current single use disposable Lateral Flow Immunoassay-based diagnostic tests have many desirable operational suitability characteristics (low cost, minimal training ...

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**6. [CBD152-006: Signal Processing for Layered Sensing](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Asymmetric threats including chemical and biological agents, improvised dissemination devices, and vehicle- and personnel-born improvised explosive devices represent a persistent hindrance to U.S. military operations. Various sensor and surveillance systems develop a capacity to warn of the presence of such threats on a point-by-point basis; however the consumption of these data in the constructio ...

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**7. [9.01: Advanced Manufacturing](#)**

Release Date: 03-09-2015 Open Date: 03-09-2015 Due Date: 05-15-2015 Close Date: 05-15-2015

Advanced Manufacturing is "a family of activities that (a) depend on the use and coordination of information, automation, computation, software, sensing, and networking, and/or (b) make use of cutting edge materials and emerging capabilities enabled by the physical and biological sciences, for example nanotechnology, chemistry, and biology. This involves both new ways to manufacture existing pro ...

SBIR National Institute of Standards and Technology Department of Commerce

**8. [9.01.01.73-R: Category-Theoretic Tools to Support Manufacturing Information Integration](#)**

Release Date: 03-09-2015 Open Date: 03-09-2015 Due Date: 05-15-2015 Close Date: 05-15-2015

This subtopic is calling for a software tool to test the categorical formalism on integration problems in smart manufacturing and additive manufacturing. Category theory has been identified as a flexible and straightforward mathematical formalism for establishing compatibility of information structures and setting up the required information exchange. The software tool must enable the creati ...

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**9. [9.01.02.73-R: Computer Aided Standards Development \(CASD\) – A Software Tool to Automate the Standards Development Process](#)**

Release Date: 03-09-2015 Open Date: 03-09-2015 Due Date: 05-15-2015 Close Date: 05-15-2015

The development of documentary and test standards is a long and tedious process. Challenges facing standards developers include complex, inadequately defined terminology, and rapidly changing associated information content. Even after a standard is “set,” its implementation and adoption can be hampered by the gap between the technical requirements of that standard and the technol ...

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**10. [9.01.03.68-R: High-Throughput Manufacturing Methods for Engineered MRI Contrast Agents](#)**

Release Date: 03-09-2015 Open Date: 03-09-2015 Due Date: 05-15-2015 Close Date: 05-15-2015

Microfabricated magnetic imaging agents with greater sensitivity and new functionality for magnetic resonance imaging (MRI) have recently been demonstrated at NIST [1-4]. The technology relies on thin-film fabrication methods adapted from the semiconductor industry. This “top-down” approach is expensive and suffers from low yield compared to “bottom-up” methods based ...

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